MIDLAND POWER DISTRIBUTION LIMITED
quality • service • support

BENASSI® S.p.A.

OPERATION AND MAINTENANCE MANUAL

LEAF SUCKER SERIES

AF 100

www.midlandpower.co.uk

CONTENTS

- ◊ INTRODUCTION
- ◊ DIDASCALIA DELLE PARTI DELLA MACCHINA
- ◊ IDENTIFICATION AND TECHNICAL CHARACTERISTICS
- ◊ PACKING AND TRANSPORT
- ◊ SAFETY RULES AND LIMITS ON USE
- ◊ STARTING AND STOPPING THE MACHINE
- ◊ OPERATING AND REGULATING THE MACHINE
- ◊ MAINTENANCE
- ◊ WARRANTY
- ◊ CERTIFICATION
- ◊ TESTS FOR SAFETY

INTRODUCTION

- ◊ Thank you for having selected our product. We would like to welcome you among our many customers.
- ◊ We are certain that you will appreciate the performance and the operating ease of this machine.
- ◊ Our wide experience in the sector, the use of top grade materials and the high quality production ensure the flawless efficiency of the machine, which is designed to give many years of use if operated and maintained correctly.
- ◊ We have therefore composed this manual to familiarise you with the use of the machine, its construction, operating features and applications, which will also facilitate maintenance.
- ◊ Pay special attention to the rules in this manual that are preceded by the symbol below:

CAUTION !

- ◊ This symbol indicates that the failure to comply with these rules may lead to personal injury.

LIST OF MACHINE PARTS

1) Accelerator
2) clutch lever
3) Bag
4) Engine start
5) Fuel cap
6) Regulator of suction opening
7) Suction opening
8) Cap for section pipe
9) Plug
10) Oil cap
11) Handle adjustment

- Fig. n° 1 -

IDENTIFICAZIONE E CARATTERISTICHE TECNICHE

FOR THE ENGINE FEATURES SEE THE ENGINE INSTRUCTION BOOKLET DELIVERED WITH THE MACHINE.

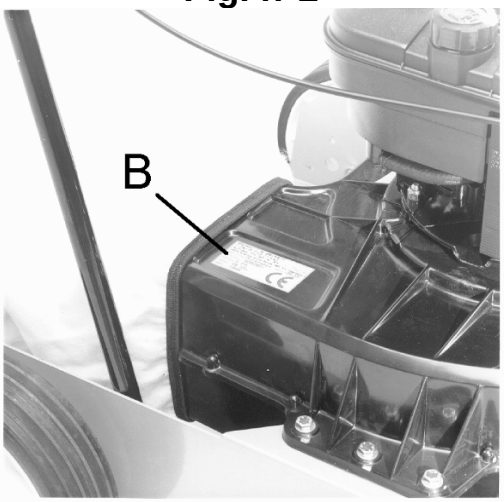
LEAF-SUCKER GENERAL SPECIFICATIONS

- ◊ Regulation of the suction opening from the ground : from 2 to 11 cm.
- ◊ air capacity : 53 m³/min.
- ◊ Wheels dimension:

Front ∅ 200 mm.
Back: ∅ 250 mm.

- ◊ Bag capacity : 230 LT.
- ◊ It is possible to fix a section pipe Ø 140 mm. and 3 Mt. long.
- ◊ The suction opening, which is cm.70 wide, is made of shockproof material.
- ◊ For machine identification (serial number, engine, weight, power) refer to the data plate as shown in the photo. See Ref. "B Fig. 2.
- ◊ For machine dimensions see fig. 3.

-Fig. n°2-



-Fig. n°3-

PACKING AND TRANSPORT

◊ WIDTH: 75,5 m.
◊ DEPHT: 83,5 cm
◊ HEIGHT: 61,5 cm

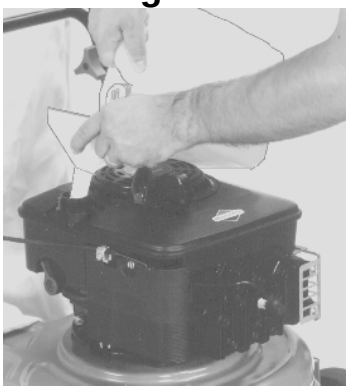
⇒ Remove the leaf-sucker from its packing.
⇒ Fix the handles to the handlebar support using the screws and knobs pre-mounted on the handle. Make sure to position the control cables correctly.
⇒ Install the vac-bag by fixing both strips with eyelet of the upper part of the bag on the two screws located on the upper handlebar, so that the strip covers the handlebar pipe from the outside. Thread the bag opening on the extension of the central body and lace through the strip set in the bag opening.
⇒ IMPORTANT : THE PACKED MACHINE IS SUPPLIED WITH THE ENGINE WITHOUT OIL AND PETROL.
⇒ It is possible to reduce the overall dimensions of the machine for an easy transport by taking away the bag, and folding the upper handlebar on the engine after unfastening the two upper knobs, taking off the screws and unfastening both lower knobs.

SAFETY RULES

IMPORTANT:
Before using the machine read carefully this operation and maintenance manual; It will allow you to get from your machine the best performance of use and duration.
IF YOU NEGLET THIS, YOU'LL ENDANGER YOURSELF OR THE LEAF-SUCKER.

- Do not tamper, take away or exclude any safety system.
- Read carefully this operations and maintenance.
- The use of this machine is prohibited to persons under 16 years of age.
- The operator is liable for damages since the machine is under his control.
- Those unfamiliar with the machine or who have never used it are obliged to read the operation and maintenance manual before operation.
- In case of transport empty the petrol out of the tank.
- If the machine is left unattended, ensure that it cannot start up again.
- Never work in bare feet or sandals. Wear sturdy shoes and long pants. First inspect the area to be cut and remove stones, sticks, metal wires and other extraneous objects.
- Before starting the machine, ensure that there is a 5 meter radius of free space around the machine.
- Dry petrol leaks.
- Always add fuel to the tank with the engine off (fig.4). The supply and/or transfer of fuel must always take place outdoors, away from flames or heat sources. Do not smoke during this operation.
- Before using the leaf-sucker, the operator must learn how to shut off the engine off quickly, and how to utilise the machine and the controls.
- Do not operate the engine where carbon monoxide exhaust may accumulate.
- Never utilise the leaf-sucker incomplete of or without the relative safety device. Never use the machine when is without its bag.
- Do not knock violently the suction opening against any walls during the use of the machine.
- Do not put any stick suction or exit opening when the engine runs.
- Take away the plug cap if you have to work at the fan or inside the sucking unit.

-Fig. n°4-



- While using the machine you have to hold the handlebar and walk quite slowly, especially if you have the manual drive version.
- Do not forget to switch off the engine when you want to empty the bag.
- Caution ! never work on slopes exceeding 30%.
- The user of the leaf-sucker is liable towards a third party for any damage caused by the machine within the working area. Children and unauthorised persons are to be kept away from the working area.
- The manufacturer shall not be held liable for any damages resulting from the failure to comply with these rules.

STARTING AND STOPPING THE LEAF-SUCKER

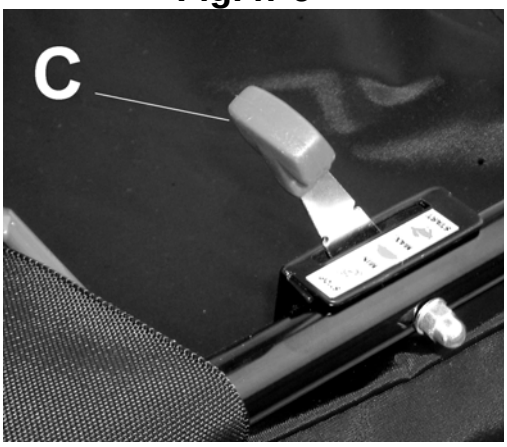
Before starting the motor, always make a careful check of the following :

-Fig. n°5-

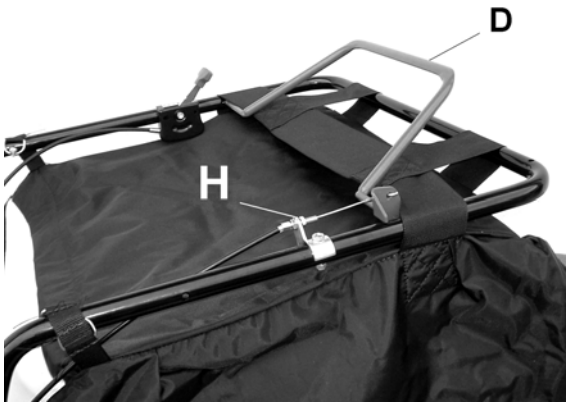
- Check the engine oil level :IMPORTANT : MACHINES OUT OF THE FACTORY DO NOT CONTAIN OIL IN THE MOTOR. Add oil up to the oil level on the dipstick.(fig.5)
- The engine can be damaged if it runs with an insufficient quantity of oil.
- PLEASE REFER TO THE ENGINE OPERATION AND MAINTENANCE MANUAL UNDER THE HEADING “BEFORE START-UP”
- Check the fixing of the fan
- Check the fixing of the bag and that the bag is not torn.
- Always start-up the machine outdoors.

1. Place the accelerator lever (Ref. “C” Fig.6) in the START position.
2. Pull the engine brake lever ref. “D” fig. 7.
3. Pull slightly (“E” Fig. 8) until feeling a some resistance, then pull harder. When the engine is running, the cord should not be released suddenly, but should be guided back until it is rewound completely.
4. Once the engine is running, have the accelerator lever “E” return approximately halfway - fig.6.
5. To shut off the engine release the “engine stop” lever - ref. “D” - fig.7, and close the petrol cock.
6. REMEMBER : never to tie the “engine stop” lever to the handlebar knob while using the leaf-sucker.

-Fig. n°6-

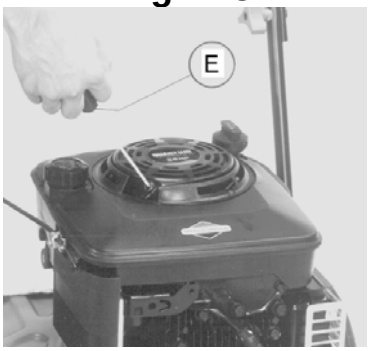


-Fig. n°7-



OPERATING AND REGULATING THE MACHINE

-Fig. n°8-



- Before starting to use the leaf-sucker check the fixing of the suction opening.
- Check the fixing of the bag and that the bag is not torn.
- The machine (in the version AF 100) moves forward by manual drive.
- It’s possible to adjust the engine brake cable through the register ref. ”H” fig.7.
- When the vac-bag is full or very heavy, go next to the unloading area, switch off the engine, open the zipper at the back of the bag (see Fig.11) and empty it. It is also possible to uncouple the bag from the handlebar by lifting the two hands with hole from the pins (Ref. “I” Fig.14), and loosening the belt (ref. “L” fig.12).
- The height of the suction opening can be regulated easily through the knob (Ref. ”M” Fig.13.). The height van vary from 2 to 11 cm. from the ground, and it depends on the material that must be sucked.
- You can fix an accessory consisting of a flexible pipe ending with a stiff piece of pipe with knob (fig.15.) if sucking must be carried out in narrow places inaccessible to the leaf sucker.

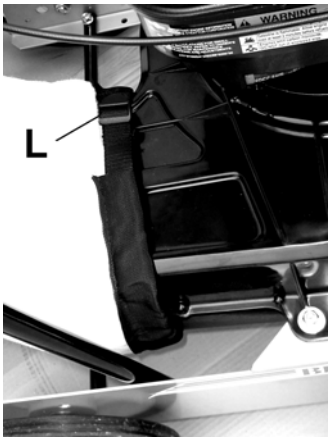
BEFORE PROCEEDING APPLY THE KIT SECTION PIPE <u>TURN OFF THE ENGINE</u>

- In order to fix this accessory you have simply to apply the plastic catch and fix it through the two issued knobs. Remove the cap in the front side of the opening and fix the flexible pipe by means its strip.

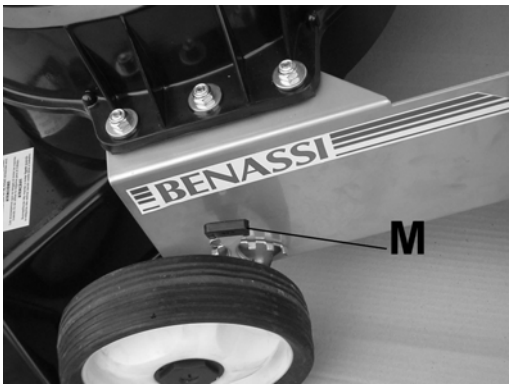
IMPORTANT !!!
IF THE LEAF-SUCKER IS USED IN VERY DUSTY PLACES IT MUST BE PERIODICALLY CLEANED BY REMOVING THE DUST. THE OBSTRUCTION OF THE BAG DUE TO THE DUST CAN CAUSE ITS BREAKING. DO NOT ASSEMBLE THE BAG IF IT IS WET. CARRY OUT THE OPERATION ONLY WHEN THE ENGINE IS SWITCHED OFF.

-Fig. n°11-

-Fig. n°12-



-Fig. n°13-

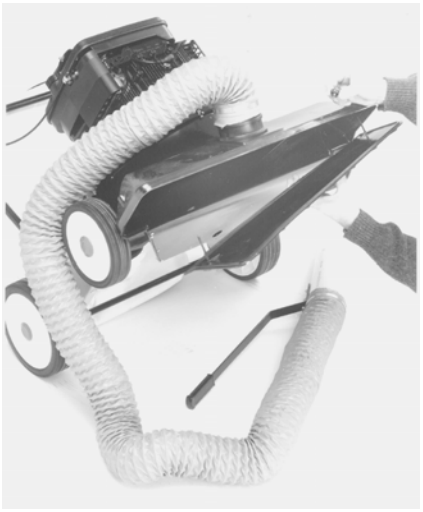


MAINTENANCE

- For changing the oil and other maintenance operations on the engine(spark plugs, air filter, regulations), refer to the engine manual provided.
- A dirty or consumed plug can compromise the good working order of the engine. heck the plug every 30 work hours. Keep the distance between the electrodes which should be equal 0,7 mm.
- Clean periodically the bag from the dust. Do not assemble the bag if it is wet

-Fig. n°14-

-Fig. n°15-



WARRANTY

The machines and accessories are guaranteed for 2 years, with the exception of electrical parts or parts in rubber. The manufacturer shall replace pieces recognised as defective free of charge. Labour and transport shall be at the expense of the purchaser. The warranty doesn't apply if the guaranteed parts are defective due to wrong installation, tempering inaccurate use or carelessness. Warranty request must be made through dealers authorised by the manufacturer.
With regard to materials not of our manufacture, with special reference to the motor, the rules laid down by the respective manufacturers shall apply. Any request for repair shall therefore be directed to the specific service centres in the respective areas.
For any problems or repair, contact the dealer where the machine was purchased.

SAFETY TESTS AND CERTIFICATION

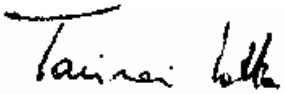
BENASSI 40010 SanMatteo della Decima BO Italy Via Lampedusa n°1

We hereby declare that the machine conforms with the essential requirements for health and safety in accordance with EEC Directive 89/392 and amendments.

LEAF-SUCKER TYPE MODEL AF 100

For verification of the conformity with the above-mentioned Directives reference has been made to the following: Standard EN ISO12100-1; UNI EN ISO12100-2.. For garden vacuum-bags, reference EN 294

CHAIRMAN OF THE BOARD



S.Matteo della Decima li 03 – 12 – 2007

RESULTS AND TESTS

Acoustic pressure to the operator: LpA = 91 dB (A)
Acoustic power level LwA = 100 dB (A)
Testing conditions at a height of 1,6 m. at handle midpoint.
Vibration to handles with weighting UNI EN 1033-1 value 3,75 m/sec^2

BENASSI S.p.A.

VIA LAMPEDUSA 1
40010 S. MATTEO DELLA DECIMA (BO)
ITALY
TEL. 0039/051/82.05.34 TELEFAX 0039/051/682.61.64
e-mail: export@benassispa.it web: www.benassi.eu